

20010509.qrp v02_n184.qrl.20010509

Date: Wed, 9 May 2001 19:03:05 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2184

QRP-L Digest 2184

Topics covered in this issue include:

- 1) [97875] QRP- Solar power
by Bruce Rattray <rattray@gpfn.sk.ca>
- 2) [97876] Re: Need Info on PLL MODing CB rigs for QRP 10 meter operation
by "Mike Yetsko" <myetsko@insydesw.com>
- 3) [97877] WPM and dit duration
by "Chuck Adams, K7Q0" <k7qo@earthlink.net>
- 4) [97878] Re: Moble with a 103" whip
by Larry Cahoon <lejek@erols.com>
- 5) [97879] QRP Sale Over
by "Brian Murrey" <bmurrey@amexol.net>
- 6) [97880] Re: Maldol whip antenna for the FT-817
by "Stephen M. King" <frastephen@home.com>
- 7) [97881] Toroid Questions
by "Brian Murrey" <bmurrey@amexol.net>
- 8) [97882] FS: RS DSP
by "T.W." <wb5qyt@abq.com>
- 9) [97883] Re: [fpqrp] Toroid Questions
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
- 10) [97884] SW40+ & FREQ Mite Trouble
by "Ken Kirkley" <ogbc@mindspring.com>
- 11) [97885] INRAD Filters in a 706?
by "Rod Cerkoney" <n0rc@hotmail.com>
- 12) [97886] DSP sold
by "T.W." <wb5qyt@abq.com>
- 13) [97887] RE: Line noise Info needed
by "Phil (VA3UX)" <phil@vaxxine.com>
- 14) [97888] Re: WB8RCR QSL Maker Software Question
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
- 15) [97889] Re: WB8RCR QSL Maker Software Question..correction
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
- 16) [97890] Re: [MH101] Crystal Matching...why?
by Mark Dulcey <mark@buttery.org>
- 17) [97891] QRP - Solar Power
by Bruce Rattray <rattray@gpfn.sk.ca>
- 18) [97892] RE: Line noise Info needed
by Pete Burbank <plburbank@kih.net>
- 19) [97893] Re: [MH101] Crystal Matching...why?

- by "Paul Harden, NA5N" <na5n@rt66.com>
- 20) [97894] Re: Op amps
by "Paul Harden, NA5N" <na5n@rt66.com>
- 21) [97895] Re: WPM and dit duration
by "Paul Harden, NA5N" <na5n@rt66.com>
- 22) [97896] Re: Toroid Questions
by "Leon Heller" <leon_heller@hotmail.com>
- 23) [97897] Re: [MH101] Crystal Matching...why?
by "Leon Heller" <leon_heller@hotmail.com>
- 24) [97898] Re: Mysteries of Cypher
by George Gingell <k3tks@u1.abs.net>
- 25) [97899] PSK31 Question
by Tom & Roxanne <zikot@erie.net>
- 26) [97900] RE: INRAD Filters in a 706?
by Nick Kennedy <nkennedy@tcainternet.com>
- 27) [97901] Re: WPM and dit duration
by "Karl F. Larsen" <k5di@zianet.com>
- 28) [97902] 706 Tuning Rate and Filters
by John R Kirby <n3aaz-qrp@juno.com>
- 29) [97903] Re: Moble with a 103" whip
by "Karl F. Larsen" <k5di@zianet.com>
- 30) [97904] Re: PSK31 Question
by "Rod Cerkoney" <n0rc@hotmail.com>
- 31) [97905] Re: Mysteries of Cypher
by "Mike Yetsko" <myetsko@insydesw.com>
- 32) [97906] Re: Why do QRPers Build?
by "Mike Yetsko" <myetsko@insydesw.com>
- 33) [97907] Re: 706 Tuning Rate and Filters
by "Rod Cerkoney" <n0rc@hotmail.com>
- 34) [97908] RE: 706 Tuning Rate and Filters
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
- 35) [97909] Re: Op amps
by "Lau, Zack, W1VT" <zlau@arrl.org>
- 36) [97910] Re: WPM and dit duration
by preacher102677@juno.com
- 37) [97911] RE: Line noise Info needed
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 38) [97912] QRP - Solar Power
by Bruce Rattray <rattray@gpfn.sk.ca>
- 39) [97913] QRP - Solar Power
by Bruce Rattray <rattray@gpfn.sk.ca>
- 40) [97914] RE: Line noise Info needed
by ed.kwik@delphiauto.com
- 41) [97915] Sixth NEQRP SSB NET was EXCELLENT!
by "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
- 42) [97916] RE: Line noise Info needed
by Maxime Prati <mprati@postech.ca>
- 43) [97917] Re: [MH101] Crystal Matching...why?

by Curt Milton <wb8yyy@yahoo.com>
44) [97918] For anyone who can get on freq...
by preacher102677@juno.com
45) [97919] Re: Toroid Questions
by "Bob Tellefsen" <n6wg@earthlink.net>
46) [97920] RED HOT RADIO - any contact from the Mother Ship?
by Brien Pepperdine <pepperb@gov.on.ca>
47) [97921] Re: INRAD Filters in a 706?
by "Bob Tellefsen" <n6wg@earthlink.net>
48) [97922] Re: NorCal Pizza Pizza!
by "Bob Tellefsen" <n6wg@earthlink.net>
49) [97923] Concern with "solar power" sign up
by Drbob92031@aol.com
50) [97924] Re: HW-99
by "Rick Austin" <rick@ltcable.com>
51) [97925] K-1 Sale
by Bob Welch <p326@earthlink.net>
52) [97926] Re: Concern with "solar power" sign up
by "Richard Brummer, K2JQ" <k2jq@bestweb.net>
53) [97927] SG-2020 ADSP Retrofit - How Good?
by Mike Pupeza <mpupeza@altavista.com>
54) [97928] solar power sign up
by Drbob92031@aol.com
55) [97929] NorCal keyer paddles
by JJ&A <w7ls@blarg.net>
56) [97930] FS Teflon wire
by n2go@arrl.net
57) [97931] QRP+ Seller?
by "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
58) [97932] [MH101] Schematic Update
by "Chuck Adams, K7Q0" <k7qo@earthlink.net>
59) [97933] Re: Concern with "solar power" sign up
by "Mike Yetsko" <myetsko@insydesw.com>
60) [97934] RE: Concern with "solar power" sign up
by Maxime Prati <mprati@postech.ca>
61) [97935] 40M monoband no-tuner SLV?
by Kenyon Cox <kenyon@charter.net>
62) [97936] St. Louis Vertical feeders?
by "Tom Dufresne" <tdufres@hotmail.com>
63) [97937] NiMH batteries can be safely trickled charged!
by Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
64) [97938] Re: Concern with "solar power" sign up
by "Dave Benham" <dodgeboy@mindspring.com>
65) [97939] Re: WB8RCR QSL Maker Software Question
by "John J. McDonough" <wb8rcr@arrl.net>
66) [97940] QRP Solar Power List
by "Ron Polityka" <wb3aal@fast.net>
67) [97941] Re: NiMH batteries can be safely trickled charged!

- by Larry Cahoon <lejek@erols.com>
68) [97942] WB9LPU paddles
by "Mark Paley" <mpaley@wcnet.org>
69) [97943] RE: NiMH batteries can be safely trickled charged!
by Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
70) [97944] paddles: try again
by "Mark Paley" <mpaley@wcnet.org>
71) [97945] What Ever Happened to the WARC-bler Project???
by "Brian B. Riley, N1BQ" <n1bq@wulfdn.org>
72) [97946] Re: WB8RCR QSL Maker Software Question
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>

Date: Tue, 8 May 2001 17:05:45 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [97875] QRP- Solar power
Message-ID: <Pine.LNX.4.33.0105081657000.25727-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Have I opened a Pandora's solar power box here?...hi hi hi....would you believe we're up to about 80+ people?...
...I've had a look at the "Bacon Bits" solar power article mentioned further in this post and I think you'll find it very interesting as it has the type of info we're looking for.....here's a list of those amateurs who have responded as of May 8th...

Mike - KI7FQ	Rick - VE7RY	Ted - VE3FUL	John - VE7CFG
Me1 - G0GQX	Rich - KB8A0B	Bob - WA2EAW	Karl - K5DI
John - VE7NI	John - N7ZN	KI0ND - David	Alan - 8P9BM/V31FA
Ron - VE3SP	Mike - WB5YJX	Robert - VE2WBW	James - KK6MC/5
Terry - KQ5U	Dick - K2JQ	John - VA7NO	Fred - VE3CLS
Dave Dabay-call?	Alan - N3BJ	Seab - AA1MY	Ted - KB9RPD
Larry - WD3P	Bob - K7RRW	Jim - VE6JWA	Slater - VE50A
Gary - N0SXX	Mike - KK5F	Ron - WB3AAL	Barry - WB6LDL
Ed - KB2NT0	Jim - AL7FS	Mike - W1USN	Brian - N1BQ
Brian - KB9BVM	Joe - KK5NA	Dave - W9SUL	Ben - N0LNW
Gordy - NW0Y	Art - KB7WW	Geoff - W10H	Mark - N50BC
Gene - KC0IKY	Steve - KE4JZG	Chuck - W5US	Arnie - C02KK
James - KC5HAC	Karl - VE6KBS	Bill - K4BY	Paul - K4FB
Russ - N7DW	Glen - K5FX	Jeff - AB6MB	Daniel - N0BN
Mike - VP8NO	Rob - VE3FLB	Dave - W7AQK	Jim - K4YBB
Dave - WA60IA	Mark - VA3ZU	Barry - VE7VIE/KD7IGX	
Dave - G0DJA	Jerry - W3CDE	Joe - W0MQY	Dave - W2QU
Randy - KS4L	Lyle - WB4JLY	Doug - VA7DD	Peter - VE3GYG

Serafino - VE3LKN Bryn - N4VM Dick - KC7TUP Steve - AA5TB
Bob - N6WG Ben - VE1AHX Alex - VK2ET Dick - AB0CD
Bill - WB0CLD Rick - AF4AR Paul - VA7NT Tim - KG4CHX
Ron - N1ZSW

...everyone is welcome to join in this learning/experimenting group...
the primary aim is to learn the basics of solar power, maybe some will get
their solar panels operational, some will "eavesdrop", some might
"lurk", some might even take notes....that's what this group is all
about...Brian Murrey sent an e-mail informing me that the latest issue of
BACON BITS has an article on solar panels by WB6JBM so I would suggest we
look at that and it's located
at:

<http://www.fpqrp.com> and click on Bacon Bits...

.....I will just try to lightly "guide" the group discussion as we all
throw in our 2 cents worth... I'm looking forward to this exchange of
knowledge and getting my own 3 small solar panels going....back in a few
days folks!....but before I go, there's something for you all to do thanks
to Brian, WB3AAL, who has gone to the trouble of setting up a separate
server for this project; thanks much Brian!...just go to this site and
follow the directions to join.....

<http://groups.yahoo.com/group/QRPSolarPower>

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
K2#2032 A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" oo#148 "I am da man wit "DAH" paddle!"

Date: Tue, 8 May 2001 19:03:49 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <wphinizy@filenet.com>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [97876] Re: Need Info on PLL MODing CB rigs for QRP 10 meter operation
Message-ID: <00ed01c0d813\$56a4e800\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

CBCI used to be big into that. CBCI stood for CB City
International or something, but they went to just CBCI when
they started doing more ham stuff.

I've been to their web site, and I've not been too impressed. You can get more and sometimes better info from a lot of the CB Hacker sites. They are geared mostly with just the freeband area, but if you understand what's going on, then you can easily do similar mods for 10M.

Mike

```
> ..if you mean "CB" as in "Citizen's Band" (aka, "Children's Band",  
"Chicken  
> Band", etc.), I know of no web site, but have several articles from  
> 1978-1981 73 Magazine on the subject. These largely addressed conversion  
of  
> the HyGain CB boards that were abundant at the time. They ran under the  
> recurring title of "CB-to-10: Part XXXX". While geared towards a  
specific  
> board or unit, the techniques and theory were transferable and would  
serve  
> as good background.  
>  
> If you like, I would be happy to send you copies..  
>  
> W. H. Phinizy, K6WHP  
> Principal Engineer  
> FileNET Corporation  
>  
>
```

Date: Tue, 08 May 2001 23:10:47 +0100
From: "Chuck Adams, K7Q0" <k7qo@earthlink.net>
To: qrp-1@Lehigh.EDU
Subject: [97877] WPM and dit duration
Message-ID: <5.0.2.1.0.20010508230123.00a55420@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The formula for the length of a dit is

1.2 sec/wpm

20 wpm = 0.060 S = 60mS
30 wpm = 0.040 S = 40mS
40 wpm = 0.030 S = 30mS
50 wpm = 0.024 S = 24mS
60 wpm = 0.020 S = 20mS

ARRL recommends a rise and fall time of 5mS per element.
Do you see why the QRQ ops modify rigs like the Corsair 1 and 2
for shorter rise and fall times? I knew you would.

And another reason why I like a higher tone than a lot of
people.....

FYI

Advanced: Assume a string of dits as a square wave. Use Fourier Analysis
to determine the bandwidth required at each speed for a continuous string
which you often hear on the air. :-)

Chuck Adams, K7QO CP-60
Prescott, AZ k7qo@earthlink.net <http://www.qsl.net/k7qo>

TMPS-2001 Jan 12th -> April 15th, 2001 States = 49 DXCC = 15

States Needed AK DXCC --- K XE VE KH6 V73 HI3 FM5 OH3 C6 ZL1 C08 ZS6 EA8 EA7
PJ ZL2

Moving to Arizona? --- Bring your own water.

Date: Tue, 08 May 2001 22:25:46 +0100
From: Larry Cahoon <lejek@erols.com>
To: pwomble1@tampabay.rr.com, qrp-1@lehigh.edu
Subject: [97878] Re: Moble with a 103" whip
Message-ID: <5.0.2.1.0.20010508221546.009f5e50@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

A mobile setup is a sufficient compromise already. I would not want to
have to use a tuner on a mobile unless I had no other choice. I'd get a
Hustler with the spider mount. You can put resonators on it for three
bands without a problem. They will all be tuned and all you have to do is
switch bands at the rig. I do it with 40 and 20 meters on my major trips

and it works just fine. I've never gone to three resonators but know guys who use as many as four resonators on their mobile setup. you will need to guyed it to the car. I use heavy fishing line or nylon twine for that.

The bumper is not the best place for the antenna mount. But if you have no other choice do it. It will be bit harder to tune the antenna and it won't get out quite as well as if it were mounted higher. The radiation pattern will also not be symmetric so you may find that when you turn a corner you lose the signal you were copying.

73 de Larry.....WD3P in MD

At 05:48 PM 05/08/01 -0400, you wrote:

>In true last minute fashion, I'm trying to get an HF mobile antenna
>installed for the drive to Dayton from the Tampa Bay area.

>

>I have a 20m hamstick, but would like to be able to get on 40m and
>perhaps 17m as well. A friend is using a CB 103" whip antenna, with an
>Icom antenna tuner mounted close to the antenna base, in his GMC
>minivan.

>

>Would the same whip, mounted on the bumper of my F150, work with the
>KAT2 on the bands of interest? The difference between the two installs
>would be the location of the tuner in relation to the antenna.

>

>Thanks!

>Paul K4FB

Date: Tue, 8 May 2001 18:18:38 -0500

From: "Brian Murrey" <bmmurrey@amexol.net>

To: "QRP-L" <qrp-l@lehigh.edu>

Subject: [97879] QRP Sale Over

Message-ID: <011c01c0d815\$3782b680\$75492bd1@iquest.net>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

My Kanga items have been sold. They is no mo'.

Thanks to Brian N0XFE

sebbenty too

=====
KB9BVN NORCAL 2792 FISTS 5695 QRP-L 1540 QRP-ARCI 10223

39.558 N 86.095 W Johnson Co., Indiana
GRID: EM69WN - Ten Tec Scout - Attic Dipole - 5w
Member of the American Radio Relay League - SOC #400
FISTS Century Club #764/#24 QRP - Flying PIG QRP #-57
=====

Date: Tue, 8 May 2001 20:02:39 -0400
From: "Stephen M. King" <frastephen@home.com>
To: "QRP-L" <qrp-l@lehigh.edu>, <cjl@mitre.org>
Subject: [97880] Re: Maldol whip antenna for the FT-817
Message-ID: <009501c0d81b\$5d0fb140\$eb600c18@bur11.nj.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Chuck!

I have the 20m and 10m coils and whip.

I have only had the chance to use them briefly, but here is my experience so far ...

I first tried the 10m coil and whip without a counterpoise. No luck ...
Then I clipped on a 1/4 wave counterpoise and was able to work a station in Spain on SSB -- received a 57. It is easy to tune for lowest SWR -- just adjust the whip length.

Today I took the 20m coil and whip out with a 1/4 wave counterpoise for 20m and worked a station in Missouri on CW -- had a long QSO and received a 559. I was not able to tune out the standing waves totally by adjusting the whip on 20m but only a few segments of the SWR meter were lit and the Power Out was full scale.

Again, this is just with 2 days use, but so far I am pleased. I think if you go into this with the fact in mind that these things are a compromise then you will probably have fun -- bottom line: keep your expectations reasonable.

BTW, I picked up a 90 degree adapter and a pl249-to-BNC adapter and use the antennas on the rear connector -- that makes me feel much more comfortable -- had visions of snapping the BNC socket right off! This seems to work fine ...

Also, my experience so far is that these things hear pretty good and they are relatively "quiet" (not noisy since they are verticals, per se....)

Does this help? Let me know if you need some more information!

73,

Stephen
W3SMK
RIverside, NJ

----- Original Message -----

From: "Chuck Ludinsky" <cjl@mitre.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, May 08, 2001 10:57 AM
Subject: Maldol whip antenna for the FT-817

> Anyone have any operating or other experience with the Maldol
> telescoping whip antenna (plus coils) for the FT-817? With and/or
> without counterpoise? Anyone check the VSWR?
>
> 72 DE K1CL,
> Chuck
>

Date: Tue, 8 May 2001 19:17:52 -0500
From: "Brian Murrey" <bmmurrey@amexol.net>
To: "pigs" <fpqrp-l@mpna.com>, "QRP-L" <qrp-l@lehigh.edu>
Subject: [97881] Toroid Questions
Message-ID: <017101c0d81d\$7d9a76a0\$75492bd1@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have another question for you experienced toroid winders.

Let's say I have a core and the directions say 16T of #24. I understand that to mean 16 turns of 24 guage enameled mag wire. Is this correct?

OK..let's say I'm fresh out of #24, it's 2am, and Radio Shack is closed. In my junk room I find a spool of #28 #22 and #30...can I use any of these and get the same results?

Thanks

73

=====
KB9BVN NORCAL 2792 FISTS 5695 QRP-L 1540 QRP-ARCI 10223
39.558 N 86.095 W Johnson Co., Indiana

GRID: EM69WN - Ten Tec Scout - Attic Dipole - 5w
Member of the American Radio Relay League - SOC #400
FISTS Century Club #764/#24 QRP - Flying PIG QRP #-57

=====

Date: Tue, 8 May 2001 18:16:26 -0600
From: "T.W." <wb5qyt@abq.com>
To: <qrp-l@lehigh.edu>
Subject: [97882] FS: RS DSP
Message-ID: <MABBIKAEJKMHLIDDGMCKGEKJCIAA.wb5qyt@abq.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

Radio Shack Digital Signal Processor....looks new and maybe never out of the box...with mobile bracket,cords>manual....all shipped CONUS 35 bux, OR whatcha got to trade??

72, Tom WB5QYT....."Have spud will travel!"

Date: Wed, 09 May 2001 10:38:04 +1000
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: Brian Murrey <bmmurray@amexol.net>, pigs <fpqrp-l@mpna.com>
Cc: QRP-L <qrp-l@lehigh.edu>
Subject: [97883] Re: [fpqrp] Toroid Questions
Message-ID: <3AF8916C.91681229@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: quoted-printable

Brian Murrey wrote:

> I have another question for you experienced toroid winders.
>
> Let's say I have a core and the directions say 16T of #24. I
> understand
> that to mean 16 turns of 24 guage enameled mag wire. Is this correct?
>
> OK..let's say I'm fresh out of #24, it's 2am, and Radio Shack is

> closed. In
> my junk room I find a spool of #28 #22 and #30...can I use any of
> these and
> get the same results?
>

Assuming it will fit, there should not be a real problem. Much could depend on the application of course. If it were the kind of LC filter where calculations relied on an expected unloaded Q then wire size "might" become a factor.
Most good designs though allow for component tolerances.

72/73's

Ian Purdie

"I believe Australia is the best address on earth"

Budgewoi N.S.W. Australia - Co-ords S33=B014', E151=B034'

My FREE Newsletter: <http://www.electronics-tutorials.com/subscribe.htm>

VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 FP#91

URL - <http://www.electronics-tutorials.com/>

Date: Tue, 8 May 2001 20:56:15 -0400
From: "Ken Kirkley" <ogbc@mindspring.com>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [97884] SW40+ & FREQ Mite Trouble
Message-ID: <001501c0d822\$dae4f6a0\$39bef7a5@default>

Just finished installing the FREQ Mite in my SW40+ and am having some problems. It seems to work OK when doing the check given in the instructions (that is on power up it will send the the characters as it is supposed to and then upon pressing the button it will give the value of the jumpers). But, when I attach the antennae to the rig I am not able to hear the FREQ Mite doing anything. I can remove the ant while the FREQ Mite is sending and can then hear it. Also, on power up it takes it several seconds before I get any response from it and then it stutters a few times before it sends the right info.

Any suggestions/ideas? Also, what should the jumpers be set for on the SW40+?

Tnx,
Ken/N04D

Date: Tue, 8 May 2001 19:31:22 -0600
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <icom@qth.net>
Subject: [97885] INRAD Filters in a 706?
Message-ID: <0E46FI1ZG5yoVTvKRNZ00000212@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I see INRAD makes filters for the IC-746. The 706 & 746 share the same 9MHz filters. So has anyone tried to mount an appropriate INRAD filter in a 706? Two concerns: filter body size & the fact that INRAD filter are wire-in, not drop-in.

73, Rod N0RC
Ft Collins, CO

SuperFest 2001 14-Jul-2001
<http://www.qsl.net/n0rc/hamfest/hamfest.html>
BE THERE!

Date: Tue, 8 May 2001 19:23:53 -0600
From: "T.W." <wb5qyt@abq.com>
To: <qrp-1@lehigh.edu>
Subject: [97886] DSP sold
Message-ID: <MABBIKAEJKMHLIDDGMCKEEKNCIAA.wb5qyt@abq.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

The DSP unit went in 25 mins...wish I had more....Tnx for the BW....

72, Tom WB5QYT..."Have spud will travel!"

Date: Tue, 08 May 2001 21:58:28 -0400
From: "Phil (VA3UX)" <phil@vaxxine.com>

To: Jerry.Lofstead@itb.mckhboc.com
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [97887] RE: Line noise Info needed
Message-ID: <3.0.5.32.20010508215828.007a18b0@vaxxine.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 02:22 PM 5/8/2001 -0400, Lofstead, Jerry wrote:

>Ed,
>
>Use the cheap and very effective, little portable AM radio! It will get you
>down to the pole and the null works great. Used it many times.
>

I agree. I've used the radio in the car (set to AM of course) to locate
noisy power line stuff in the neighborhood.

Phil

>Jerry
>W3CDE
>
>-----Original Message-----
>From: ed.kwik@delphiauto.com [mailto:ed.kwik@delphiauto.com]
>Sent: Tuesday, May 08, 2001 11:21 AM
>To: Low Power Amateur Radio Discussion
>Subject: Line noise Info needed
>
>
>
>I gotta get serious about my local power line noise problem. I would like
>to
>check into some gear that does a better job of locating noise sources. I
>have
>the recent QST article but it seems to be more complicated than I need.
>Does
>anyone have a copy of this article handy?
>
>W. Leavitt, W3AZ, "A Line-Noise 'Sniffer' that Works," QST, Sep 1992, pp
>52-55.
>
>Thanks
>
>Ed AB8DF
>
>
>

Date: Tue, 08 May 2001 22:13:00 -0400
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
To: Bob Patten <n4bp@bc.seflin.org>, Henry Freedenberg <henryf@quartz.gly.fsu.edu>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97888] Re: WB8RCR QSL Maker Software Question
Message-ID: <4.3.1.2.20010508220710.00a8ce00@gly.fsu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Many thanks to all who offered suggestions on my original post.

I would still like to see 4 cards on a single 8.5 x 11 sheet.

Bob, KC4ATU, in a direct reply, got me thinking. He told me that he no longer uses WB8RCR but uses the postcard maker feature in Photoshop. I don't have Photoshop but I do have JASC's Paint Shop Pro (PSP) in the office. PSP is turning out to be really nifty for displaying images. The image generator in the seismic processing software I use for the day job isn't worth a hoot and I routinely export my seismic data to PSP for formatting before sending it to the plotter. If I were designing a SAT test I guess the best analogy would be Photoshop:PSP as Snap-On:Harbor Freight. But that comparison might be a bit unfair to PSP. PSP does what it's supposed to do with a quick learning curve and a reasonable price.

This is how I managed to get 4 complete QSL cards on a single page of postcard stock. I set up the QSL card(s) I wanted in WB8RCR and displayed them on my monitor. I then used the Print Screen button on the keyboard to copy the image on the screen to the clipboard. I then opened PSP and created a new image. I pasted the clipboard contents into the new image and cropped the new image so that only a single QSL card was present. I then saved this image as a jpeg under a new name. After reopening the image, I used the Multiple Print command in PSP to paste 4 of the images onto a single page, rotated the images 90 degrees. Then I used the automatic size command to expand the images to fill out the page. Seems to work real well. We had network problems at the shop so I did not run the actual print job yet. Tomorrow I will send several pages to the HP-8500 and we'll see how it goes. If there's an interest, I can bring an uncut sheet of printed postcard stock to FDIM so y'all can admire my handiwork.

Thanks again

Henry

Date: Tue, 08 May 2001 22:27:11 -0400
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [97889] Re: WB8RCR QSL Maker Software Question..correction
Message-ID: <4.3.1.2.20010508222611.00a67190@gly.fsu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Oops..it was Bill, KC4ATU who made the original suggestion.

Mea Culpa.

Henry

Date: Tue, 08 May 2001 23:18:54 -0400
From: Mark Dulcey <mark@buttery.org>
To: bmurrey@amexol.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [97890] Re: [MH101] Crystal Matching...why?
Message-ID: <3AF8B71E.5151CC77@buttery.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Brian Murrey wrote:

>
> First of all, I am a circuit rookie. This may be a real dumb question but
> here it goes. I'm not too bashful to ask it, don't be too hard on me. <grin>
>
> I got my crystals from Mouser. They all have the same freq marked on the
> outside of them. Doesn't this mean they are matched?

No, it doesn't. They're the same frequency, within the manufacturing tolerance, but the manufacturing tolerances for the microprocessor crystals used in most ham projects are rather loose. You can buy tightly-specified crystals from companies like International Crystal and Jan Crystals, but they cost 10-20 times as much as the cheap microprocessor parts. (To be fair, the expensive crystals will usually also have a lower ESR and higher Q.)

> If it doesn't, then can someone 'splain to me what this matchgning is all
> about and why we need them matched?

Building a ladder crystal filter requires that all the crystals be on the same frequency. The closer the match, the more closely the filter will match its theoretical performance. Ideally, they should be matched in other ways (Q and so forth) as well. The more elaborate the filter, the more important the matching is. Some hams have built ladder filters with as many as 14 poles - but they went through batches of 100 crystals to get the 14 matched ones. (No, it's not as wasteful as all that; you get more than one matched set from your bag of 100, just not all matched at exactly the same frequency.)

--

Mark J. Dulcey mark@buttery.org
Visit my house's home page: <http://www.buttery.org/>
Visit my home page: <http://www.buttery.org/mark/>

Date: Tue, 8 May 2001 22:04:36 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [97891] QRP - Solar Power
Message-ID: <Pine.LNX.4.33.0105082156500.12656-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well of course I goofed and called Ron "Brian".....my apologies Ron...I tried more than one thing on my brain at a time and thus the result...sri...

...Ron, WB3AAL, is the chap who has stepped forward and set up a new server for our QRP solar power discussion and exchange of information...all you have to do is to subscribe and here's the url:

<http://groups.yahoo.com/group/QRPSolarPower>

...I see there are 14 so far who have signed up....I'm new at this "group" thing so I'm learning; the hard way as usual...HAR!....I'll keep a watch on the sign up total and when it looks like we're up to our present number of interested people or more, we'll get things going....but please test the server and make sure everything's ok....I think I just posted a message to Ron on there....time will tell eh!?!.....so everyone have at it and sign up please.....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
K2#2032 A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" oo#148 "I am da man wit "DAH" paddle!"

Date: Wed, 09 May 2001 00:05:30 -0400
From: Pete Burbank <plburbank@kih.net>
To: Jerry.Lofstead@itb.mckhboc.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [97892] RE: Line noise Info needed
Message-ID: <5.0.2.1.0.20010508234606.00a85030@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 02:22 PM 5/8/2001 -0400, Lofstead, Jerry wrote:

>Ed,
>
>Use the cheap and very effective, little portable AM radio! It will get you
>down to the pole and the null works great. Used it many times.
>
>Jerry
>W3CDE

Jerry,
Could you describe more exactly how you use the AM radio with loopstick? My
results
have been confusing. Nelson's book shows the radio being used with the loopstick
end on to the QRN. From what I have read, that would work in the near field
but farther
away the max reception occurs broadside to the loopstick.
My best luck has been with an old 27 mc AM CB walkie talkie. Up close the
whiplength
is nil.
73 Pete NV4V

Date: Tue, 8 May 2001 22:54:26 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: Brian Murrey <bmurrey@amexol.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97893] Re: [MH101] Crystal Matching...why?
Message-ID: <Pine.SUN.4.10.10105082225210.17493-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 8 May 2001, Brian Murrey wrote:

> First of all, I am a circuit rookie. This may be a real dumb question but

> here it goes. I'm not too bashful to ask it, don't be too hard on me. <grin>

You don't learn if you don't ask.

> I got my crystals from Mouser. They all have the same freq marked on the
> outside of them. Doesn't this mean they are matched?

No. Say you got 9.000MHz crystals. They are guaranteed to be 9MHz +/- the tolerance, which is usually in the 20ppm (parts per million) range. But at 9 MHz, 20ppm would be 180Hz. That means if you bought 10 crystals, you could expect a couple to be around 180Hz LOW and a couple 180Hz HIGH. This is a 360Hz spread.

My experience in matching crystals, seeing spreads of 200-300Hz is typical, with an occasional crystal more than that. Of course this spread will be greater with crystals of higher frequency.

For crystals used in oscillator circuits, such as the BFO on a product detector, this is no biggie, since most crystal oscillators have the provisions to skew the crystal to the exact frequency needed, usually with a variable capacitor in series with the crystal.

But for a crystal ladder filter using 3-4 crystals, you ideally want all crystals to operate at the same frequency. Say the filter is designed for an 800Hz bandwidth. That is based on all crystals being MATCHED, that is, on the exact same frequency. But if one is LOW by 150Hz and one is HIGH by 150Hz, the filter bandwidth is now $800\text{Hz} + 300\text{Hz} = 1100\text{Hz}$. Each crystal will cause a different peak in the filter passband, so you will have 2-3 peaks instead of one. This is called filter ripple and can cause some undesired effects. Nothing serious, but by matching the crystals to the same frequency in a filter, the filter will be operating at it's optimum performance -- as the designer intended.

To match crystals, each crystal is usually dropped into an oscillator and the frequency measured on a frequency counter. For the crystal filter, you then use the crystals that are the closest in frequency. The crystals that are the farthest away can then be used in oscillator applications.

If you don't have a frequency counter, it is also possible to use the product detector in the rig you are building. Temporarily solder in a crystal (say the 9MHz crystal) and find it on a fairly good shortwave receiver. Remove the crystal and solder in the next crystal and note the tone on the shortwave receiver. If you have a fair ear for "tone," you should be able to detect a crystal that is 150-200Hz hi or low. The ones that come up about the same tone are the ones closest matched.

If you just don't have the means to match the crystals, it's not the end of the world. It won't keep your rig from working. Your filter bandpass

will be a few hundred HZ wider than designed, and the steepness of the filter roll-off might be a bit sloppier, and you might pick up a bit more BFO power in the filter (the BFO is usually about 700Hz higher than the IF frequency in a crystal filter), but you will still have fairly nice IF filtering. Enough to use the rig and have some good QSO's.

Think of it this way. In the "old days," most IF filtering was done by a series of IF transformers. A poorly matched filter still out performs that approach :-)

GL Brian with building the rig.

72, Paul NA5N

Date: Tue, 8 May 2001 23:06:54 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: Brian Murrey <bmurrey@amexol.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [97894] Re: Op amps
Message-ID: <Pine.SUN.4.10.10105082257380.17493-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 8 May 2001, Brian Murrey wrote:

> Is there a difference between a LM741C and a UA741C?
> Are they part numbers for the same part?

They are the same part. Usually, the first letter or two signifies the MANUFACTURER of the device, but for different manufacturers to call it a "741," they must all meet certain minimum specifications for that device. That makes them all interchangeable for most applications.

Some of the manufacturing codes for linear devices you will see are:

LM - National Semiconductors
NE - Signetics (now Philips)
AD - Analog Devices
TL - Texas Instruments
MC - Motorola
JRC - Japan Radio Corporation
UA - shucks, I forget. United Artists?

Also, many single op amps are pin-compatible with the 741, such as the

TL081 and LF351 (op amps using FETs). In these cases, often the FET versions will required less power, have less noise, etc., but they can be plugged directly into where a 741 goes.

72, Paul NA5N

Date: Tue, 8 May 2001 23:14:38 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: "Chuck Adams, K7Q0" <k7qo@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97895] Re: WPM and dit duration
Message-ID: <Pine.SUN.4.10.10105082308130.17493-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 8 May 2001, Chuck Adams, K7Q0 wrote:

> The formula for the length of a dit is

>

> 1.2 sec/wpm

>

> 60 wpm = 0.020 S = 20mS

A typical "blink of an eye" is about 100mS. So that must mean that Chuck's famous (and trademarked) "dit dit" is quicker than an eye blink or a heart beat, faster than a speeding bullet ... well, you get the idea.

Now to work on the fourier transform thing :-)

72, Paul NA5N

Date: Wed, 09 May 2001 07:42:43
From: "Leon Heller" <leon_heller@hotmail.com>
To: bmurrey@amexol.net, qrp-1@Lehigh.EDU
Subject: [97896] Re: Toroid Questions
Message-ID: <F67UuEhjJ8uT6Ssuot0000005a7@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>
>I have another question for you experienced toroid winders.
>
>Let's say I have a core and the directions say 16T of #24. I understand
>that to mean 16 turns of 24 guage enameled mag wire. Is this correct?
>
>OK..let's say I'm fresh out of #24, it's 2am, and Radio Shack is closed. In
>my junk room I find a spool of #28 #22 and #30...can I use any of these and
>get the same results?

It won't make any difference as far as the inductance is concerned. However,
using thinner wire (greater losses) would degrade the Q. It won't really
matter very much, in practise.

73, Leon

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Wed, 09 May 2001 07:57:10
From: "Leon Heller" <leon_heller@hotmail.com>
To: bmurrey@amexol.net, qrp-l@Lehigh.EDU
Subject: [97897] Re: [MH101] Crystal Matching...why?
Message-ID: <F10q4gtopWd7KKQpQq5000005a3@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>Date: Tue, 8 May 2001 17:32:19 -0500
>
>First of all, I am a circuit rookie. This may be a real dumb question but
>here it goes. I'm not too bashful to ask it, don't be too hard on me.
><grin>
>
>I got my crystals from Mouser. They all have the same freq marked on the
>outside of them. Doesn't this mean they are matched?
>

Cheap crystals are only matched to, perhaps, 300 parts per million (off the
top of my head). Depending on the bandwidth of the filter, you need matching
much closer than that, otherwise you get a poor frequency response from the
filter. It's a % of the bandwidth, as I recall.

73, Leon

--

Leon Heller, G1HSM Tel: (work): +44 1327 357824 (home): +44 1327 359058
Email:leon_heller@hotmail.com My web page:
http://www.geocities.com/leon_heller IRISYS Ltd: <http://www.irisys.co.uk>

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Wed, 9 May 2001 04:16:48 -0400 (EDT)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@Lehigh.EDU>
Subject: [97898] Re: Mysteries of Cypher
Message-ID: <Pine.BSF.4.33.0105090348450.70618-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

After reading several Postings on the subject of Cypher or Codes, I remembered that I had some Items in my office from my visit to the Cryptologic Museum in Laurel, Maryland as mentioned by some of you on the list.

If you have an interest in the subject, you owe it to yourself to try to visit the museum.

One Interesting item that I purchased while there was a Book and Computer Program. Secret Code Breaker, A Cryptoanalysts Handbook by Robert Reynard with software on disk. (c) 1996 Robert Reynard Library of Congress #TXu 722-212. ISBN 1-889668-00-1 I think it was about \$ 20.00, but not sure.

The Museum also had several handouts and booklets even some puzzles and code books for children. (Of all ages :^}

I also ran into some Crypto (Cipher Wheels) at the Home of President Thomas Jefferson. (Monticello). The US Army actually used a version of that Cipher Wheel.

One of the Pamphlets I picked up was "The Cryptographic Mathematics of ENIGMA" by Dr. A. Ray Miller.

They have actual ENIGMA Machines at the museum.

I can't seem to remember where I put it now, but I had a Copy of a Letter with an encrypted message for a buried treasure in it. In fact, I think there is or was a group in Pennsylvania that published the materials. I don't think anyone has ever cracked the code yet. At least I never heard of anyone claiming the treasure :^}

We also had a very good TV Series on Public Television last year. It was all about the "Code Breakers" at Bletchley Park. That is over there in U.K. where all the Experts Lived and Worked During WWII. Quite a Story.

I just read recently that A company is offering a FingerPrint Reader to control electronic Locks. They had them at the Museum also. But this new offering seems directed toward the automotive industry. likely BMW and other High end vehicles.

Next thing you know, they will have one for your laptop. I have enough trouble as it is now... :^}

1234567890 QXRXPTXUX

Sir George, The First :^}

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
Notary Public and Commercial Locksmith Services (301) 572-6789 Office & Fax
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

Date: Wed, 09 May 2001 05:37:48 -0400
From: Tom & Roxanne <zikot@erie.net>
To: QRPL <qrp-l@Lehigh.EDU>
Subject: [97899] PSK31 Question
Message-ID: <5.0.2.1.0.20010509053609.00a08380@erie.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Does anyone know a web site where I can get a copy of

PSK31 software that is supported by a PC sound card only?
I would like to give PSK31 a try on 6m.

Tom & Roxanne

Date: Wed, 9 May 2001 06:31:58 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'n0rc@hotmail.com'" <n0rc@hotmail.com>, Low Power Amateur Radio Discussion
<qrp-1@Lehigh.EDU>
Subject: [97900] RE: INRAD Filters in a 706?
Message-ID: <01C0D851.C0286FC0.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

On the subject of selectivity in the 706 w/500 Hz filters ...

I recently also bought a 706 and noted that CW signals didn't peak up quickly and then drop out just as quickly when I tuned the band.

On further observation though, I think the tuning rate is making the filter seem (subjectively) less sharp than it really is. I just did a comparison of the FT-1000 and the IC-706. The 1000 moved 10 khz in one turn of the knob and the 706 gave 2 kHz. Quite a difference!

Not saying that the IC-706's filtering is as sharp as the FT-1000's, but it is interesting that the tuning rate can affect your perception of how sharp the filter is.

Also, we had that discussion on 500 Hz Vs. 250 Hz here a few months ago. I guess 250 Hz won, but on the FT-1000 I'll very rarely choose the 250 Hz filter over the 500.

72--Nick, WA5BDU

Date: Wed, 9 May 2001 06:21:51 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: "Chuck Adams, K7QO" <k7qo@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97901] Re: WPM and dit duration

Message-ID: <Pine.LNX.4.33.0105090618150.1150-100000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The Ten Tec Argonaut has a 120 MFD electrolytic capacitor across the keying line. I hooked up my cmos keyer and it could not go faster than 10 wpm! Removed the capacitor and all is well.

1.2 sec/wpm may be what the cmos keyer uses. It's a tiny simple computer.

On Tue, 8 May 2001, Chuck Adams, K7Q0 wrote:

>
>
> The formula for the length of a dit is
>
> 1.2 sec/wpm
>
> 20 wpm = 0.060 S = 60mS
> 30 wpm = 0.040 S = 40mS
> 40 wpm = 0.030 S = 30mS
> 50 wpm = 0.024 S = 24mS
> 60 wpm = 0.020 S = 20mS
>
> ARRL recommends a rise and fall time of 5mS per element.
> Do you see why the QRQ ops modify rigs like the Corsair 1 and 2
> for shorter rise and fall times? I knew you would.
>
> And another reason why I like a higher tone than a lot of
> people.....
>
> FYI
>
> Advanced: Assume a string of dits as a square wave. Use Fourier Analysis
> to determine the bandwidth required at each speed for a continuous string
> which you often hear on the air. :-)
>
>
>
>
> Chuck Adams, K7Q0 CP-60
> Prescott, AZ k7qo@earthlink.net <http://www.qsl.net/k7qo>
>
> Tmps-2001 Jan 12th -> April 15th, 2001 States = 49 DXCC = 15
>
> States Needed AK DXCC --- K XE VE KH6 V73 HI3 FM5 OH3 C6 ZL1 C08 ZS6 EA8
EA7 PJ ZL2

>
> Moving to Arizona? --- Bring your own water.
>
>

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Wed, 9 May 2001 08:24:46 -0400
From: John R Kirby <n3aaz-qrp@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [97902] 706 Tuning Rate and Filters
Message-ID: <20010509.082455.-247723.1.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Tuning rate depends on MODE.

Depending on *MODE* . . . Press and hold *TS* . . . and the tuning rate goes to 1 Hz in CW mode, that is apx 250 Hz per revolution on twenty meters.

re FILTERS . . .

Remember there are **three** selections **wide**, **medium** and **narrow**, again depending on mode and how (where) you install the filters. Page 23 of my manual **OPERATIONAL FILTER SELECTION** is one of the most "complex reading ever written" / extremely versatile (flexible)..

DO NOT FORGET about . . . IF SHIFT . . . one *****super***** nice (filter) feature W O W ! !

John
N3AAZ
FM 19 xa

GET INTERNET ACCESS FROM JUNO!
Juno offers FREE or PREMIUM Internet access for less!
Join Juno today! For your FREE software, visit:

<http://dl.www.juno.com/get/tagj>.

Date: Wed, 9 May 2001 06:29:27 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Larry Cahoon <lejek@erols.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97903] Re: Moble with a 103" whip
Message-ID: <Pine.LNX.4.33.0105090623000.1150-100000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have the Ham Stiks which are short, but resonant at the frequency in use. My antenna has it's base at the top of the camper on my Jeep pickup. I ran several tests between my "pretty good" 80 meter vee wire antenna and the Ham Stik on 40 meters. The Ham Stik is 10 db below the wire.

I need to run a test on a longer path using my butternut vertical against the Ham Stik on 40 meters.

Did this on 15 meters and it was terrible! The Ham Stik is 30 DB below my TH6DXX 6 element beam at 55 feet...

On Tue, 8 May 2001, Larry Cahoon wrote:

> A mobile setup is a sufficient compromise already. I would not want to
> have to use a tuner on a mobile unless I had no other choice. I'd get a
> Hustler with the spider mount. You can put resonators on it for three
> bands without a problem. They will all be tuned and all you have to do is
> switch bands at the rig. I do it with 40 and 20 meters on my major trips
> and it works just fine. I've never gone to three resonators but know guys
> who use as many as four resonators on their mobile setup. you will need to
> guyed it to the car. I use heavy fishing line or nylon twine for that.
>
> The bumper is not the best place for the antenna mount. But if you have no
> other choice do it. It will be bit harder to tune the antenna and it won't
> get out quite as well as if it were mounted higher. The radiation pattern
> will also not be symmetric so you may find that when you turn a corner you
> lose the signal you were copying.
>
> 73 de Larry.....WD3P in MD
> At 05:48 PM 05/08/01 -0400, you wrote:
> >In true last minute fashion, I'm trying to get an HF mobile antenna
> >installed for the drive to Dayton from the Tampa Bay area.
> >

> >I have a 20m hamstick, but would like to be able to get on 40m and
> >perhaps 17m as well. A friend is using a CB 103" whip antenna, with an
> >Icom antenna tuner mounted close to the antenna base, in his GMC
> >minivan.
> >
> >Would the same whip, mounted on the bumper of my F150, work with the
> >KAT2 on the bands of interest? The difference between the two installs
> >would be the location of the tuner in relation to the antenna.
> >
> >Thanks!
> >Paul K4FB
>
>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Wed, 9 May 2001 06:37:08 -0600
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: <zikot@erie.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [97904] Re: PSK31 Question
Message-ID: <OE76ch9wPiyAphwFutJ00000516@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

AFAIK most PSK-31 software uses only the soundcard. But you will
require one connection from the computer's serial port to control the
PTT button.

For software I recommend DigiPan, easy to learn and use, plus it is
free, available at:

<http://www.digipan.net/>

This is the site of Skip Teller featured in the QST article. Skip also
offers a isolating interface box, should you choose not to "roll you
own". The Digipan help files contains info on how to interface you
rig/computer.

Other commercial sources of interfaces are:

<http://www.tigertronics.com>

<http://www.packetradio.com/psk31.htm>

<http://www.westmountainradio.com/>

Some of these sights have links to other software, there is a lot to choose from.

Also, I know of one email list the discusses PSK-31, you can subscribe via the supporting website:

<http://aintel.bi.ehu.es/psk31.html>

Lots of links to other software & hardware.

GL!

73, Rod N0RC
Ft Collins, CO

SuperFest 2001 14-Jul-2001
<http://www.qsl.net/n0rc/hamfest/hamfest.html>
BE THERE!

----- Original Message -----

From: "Tom & Roxanne" <zikot@erie.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, May 09, 2001 03:37 AM
Subject: PSK31 Question

> Does anyone know a web site where I can get a copy of
> PSK31 software that is supported by a PC sound card only?
> I would like to give PSK31 a try on 6m.
>
>
>
> Tom & Roxanne
>
>

Date: Wed, 9 May 2001 08:41:57 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>

To: <k3tks@u1.abs.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [97905] Re: Mysteries of Cypher
Message-ID: <005201c0d885\$72b9c0c0\$6b01a8c0@INSYDENT>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The former 'KGB' (I was told...) runs a 'spy museum' in Moscow with a lot of neat things in it, including some old code stuff.

It would just be neat to see the point of view from the 'other side'.
If
your travels take you to Moscow, of course!

I was told it was 'appointment only' but very easy to get access too.

I wouldn't be surprised if there was a fee...

Mike

> After reading several Postings on the subject of Cypher or Codes, I
> remembered that I had some Items in my office from my visit to the
> Cryptologic Museum in Laurel, Maryland as mentioned by some of you on
the
> list.
>
> If you have an interest in the subject, you owe it to yourself to try
to
> visit the museum.
>
> One Interesting item that I purchased while there was a Book and
Computer
> Program. Secret Code Breaker, A Cryptoanalysts Handbook by Robert
Reynard
> with software on disk. (c) 1996 Robert Reynard Library of Congress
> #TXu 722-212. ISBN 1-889668-00-1 I think it was about \$ 20.00, but
not
> sure.
>
> The Museum also had several handouts and booklets even some puzzles
and
> code books for children. (Of all ages :^}
>
> I also ran into some Crypto (Cipher Wheels) at the Home of President
> Thomas Jefferson. (Monticello). The US Army actually used a version

of
> that Cipher Wheel.
>
> One of the Pamphlets I picked up was "The Cryptographic Mathematics of
> ENIGMA" by Dr. A. Ray Miller.
>
> They have actual ENIGMA Machines at the museum.
>
> I can't seem to remember where I put it now, but I had a Copy of a
Letter
> with an encrypted message for a buried treasure in it. In fact, I
think
> there is or was a group in Pennsylvania that published the materials.
> I don't think anyone has ever cracked the code yet. At least I never
heard
> of anyone claiming the treasure :^}
>
> We also had a very good TV Series on Public Television last year. It
was
> all about the "Code Breakers" at Bletchley Park. That is over there in
> U.K. where all the Experts Lived and Worked During WWII. Quite a
Story.
>
> I just read recently that A company is offering a FingerPrint Reader
to
> control electronic Locks. They had them at the Museum also. But this
new
> offering seems directed toward the automotive industry. likely BMW and
> other High end vehicles.
>
> Next thing you know, they will have one for your laptop. I have enough
> trouble as it is now... :^}
>
> 1234567890 QXRXPTXUX
>
> Sir George, The First :^}
>
> 72 ES
> QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
> Former QRP A.R.C.I. Net Manager and Board of Director Member.
> Gingell & Company, Ltd. Small Business Telephone Systems
> Notary Public and Commercial Locksmith Services (301) 572-6789 Office
& Fax
> George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD
20904-7117
> Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1
> Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
> Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

>
> "72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM
>
>
>

Date: Wed, 9 May 2001 08:47:23 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [97906] Re: Why do QRPers Build?
Message-ID: <006e01c0d886\$376bc1c0\$6b01a8c0@INSYDENT>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You know, I REALLY don't mean this to sound like a "Smart A___"
answer, but the bottom line is "because me can"

We hear all the deriding comments about appliance operators and such,
but as QRP people, we've almost HAD to build most of our stuff over
the years. And it is fun. And addicting.

There just is something about building that non-builders just won't
understand. Like trying to explain why parachuting is fun to someone
who won't even get into an airplane. Why skimming down a snow covered
slop on skis is a rush to someone who just wants to sit by the fire on
winter days...

Some people just don't get it. But to those that do, it comes right
back
to "They build because they can!"

Mike

is fun

Date: Wed, 9 May 2001 06:52:51 -0600
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: <n3aaz-qrp@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [97907] Re: 706 Tuning Rate and Filters

Message-ID: <OE36JrzdDW6lCPx33E1000004f1@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="Windows-1252"
Content-Transfer-Encoding: 7bit

John,

Tuning rate: Right you are, a very nice feature of 706 & other Icom Rigs, I use it a lot.

IF shift: another great feature of the Icom.

Between the Tuning Rate, IF shift, CW-R I think I'll just stay with the Icom 500Hz filter--plenty good for occasional CW QSOs. I've also had pretty good luck with the DSP features helping to minimize QRM.

I think I will add an FL-223: 1.9 kHz for SSB with that I'll have:

Radio default 2.4 kHz for SSB/PSK
1.9 kHz for SSB Narrow
500 kHz for CW

A pretty versatile arrangement.

73, Rod N0RC
Ft Collins, CO

SuperFest 2001 14-Jul-2001
<http://www.qsl.net/n0rc/hamfest/hamfest.html>
BE THERE!

----- Original Message -----

From: "John R Kirby" <n3aaz-qrp@juno.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, May 09, 2001 06:24 AM
Subject: 706 Tuning Rate and Filters

>
> Tuning rate depends on MODE.
>
> Depending on *MODE* . . . Press and hold *TS* . . . and the tuning rate
> goes to 1 Hz in CW mode, that is apx 250 Hz per revolution on twenty

> meters.
>
> re FILTERS . . .
>
> Remember there are **three** selections **wide**, **medium** and
narrow,
> again depending on mode and how (where) you install the filters.
> Page 23 of my manual **OPERATIONAL FILTER SELECTION**
> is one of the most "complex reading ever written" / extremely
versatile
> (flexible)..
>
> DO NOT FORGET about . . . IF SHIFT . . . one **super** nice
> (filter) feature W O W ! !
>
> John
> N3AAZ
> FM 19 xa
>
>
> -----
> GET INTERNET ACCESS FROM JUNO!
> Juno offers FREE or PREMIUM Internet access for less!
> Join Juno today! For your FREE software, visit:
> <http://dl.www.juno.com/get/tagj>.
>

Date: Wed, 9 May 2001 08:59:04 -0400
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97908] RE: 706 Tuning Rate and Filters
Message-ID: <078F21595FA7D411B87B00805FA728E64A4726@atlexc02ntms.h boc.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Some people forget about the WIDE when filters are installed... just push an
hold the filter switch to go into wide position.

Jerry

-----Original Message-----
From: John R Kirby [mailto:n3aaz-qrp@juno.com]
Sent: Wednesday, May 09, 2001 5:25 AM
To: Low Power Amateur Radio Discussion
Subject: 706 Tuning Rate and Filters

Tuning rate depends on MODE.

Depending on *MODE* . . . Press and hold *TS* . . . and the tuning rate goes to 1 Hz in CW mode, that is apx 250 Hz per revolution on twenty meters.

re FILTERS . . .

Remember there are **three** selections *wide*, *medium* and *narrow*, again depending on mode and how (where) you install the filters. Page 23 of my manual *OPERATIONAL FILTER SELECTION* is one of the most "complex reading ever written" / extremely versatile (flexible)..

DO NOT FORGET about . . . IF SHIFT . . . one **super** nice (filter) feature W O W ! !

John
N3AAZ
FM 19 xa

GET INTERNET ACCESS FROM JUNO!
Juno offers FREE or PREMIUM Internet access for less!
Join Juno today! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Wed, 9 May 2001 09:02:23 -0400
From: "Lau, Zack, W1VT" <zlau@arrl.org>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [97909] Re: Op amps
Message-ID: <125490A005E3D3118C9C00805FC743CC016B9E29@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Fairchild

Date: Wed, 9 May 2001 08:59:35 -0400
From: preacher102677@juno.com
To: qrp-l@Lehigh.EDU

Subject: [97910] Re: WPM and dit duration
Message-ID: <20010509.092620.-250555.1.preacher102677@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Sounds like about my speed!

On Wed, 9 May 2001 06:21:51 -0600 (MDT) "Karl F. Larsen"
<k5di@zianet.com> writes:

>
> The Ten Tec Argonaut has a 120 MFD electrolytic capacitor
> across
> the keying line. I hooked up my cmos keyer and it could not go
> faster than
> 10 wpm! Removed the capacitor and all is well.
>
> 1.2 sec/wpm may be what the cmos keyer uses. It's a tiny simple
> computer.
>
> On Tue, 8 May 2001, Chuck Adams, K7QO wrote:
>
> >
> >
> > The formula for the length of a dit is
> >
> > 1.2 sec/wpm
> >
> > 20 wpm = 0.060 S = 60mS
> > 30 wpm = 0.040 S = 40mS
> > 40 wpm = 0.030 S = 30mS
> > 50 wpm = 0.024 S = 24mS
> > 60 wpm = 0.020 S = 20mS
> >
> > ARRL recommends a rise and fall time of 5mS per element.
> > Do you see why the QRQ ops modify rigs like the Corsair 1 and 2
> > for shorter rise and fall times? I knew you would.
> >
> > And another reason why I like a higher tone than a lot of
> > people.....
> >
> > FYI
> >
> > Advanced: Assume a string of dits as a square wave. Use Fourier
> Analysis
> > to determine the bandwidth required at each speed for a continuous
> string
> > which you often hear on the air. :-)

> >
> >
> >
> >
> > Chuck Adams, K7QO CP-60
> > Prescott, AZ k7qo@earthlink.net <http://www.qsl.net/k7qo>
> >
> > TMPS-2001 Jan 12th -> April 15th, 2001 States = 49 DXCC = 15
> >
> > States Needed AK DXCC --- K XE VE KH6 V73 HI3 FM5 OH3 C6 ZL1
> C08 ZS6 EA8 EA7 PJ ZL2
> >
> > Moving to Arizona? --- Bring your own water.
> >
> >
>
> --
> Yours Truly,
>
> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
>

LIC,
G. Brandon Hoyt --"Known far and Wide as the Great Pumpkin."
Photographer, Philosopher, Preacher, Pirate, Poet.
DE KG4GVL Clear.

GET INTERNET ACCESS FROM JUNO!
Juno offers FREE or PREMIUM Internet access for less!
Join Juno today! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Wed, 9 May 2001 09:54:34 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: "'ed.kwik@delphiauto.com'" <ed.kwik@delphiauto.com>, Low Power Amateur Radio
Discussion <grp-l@Lehigh.EDU>
Subject: [97911] RE: Line noise Info needed
Message-ID: <125490A005E3D3118C9C00805FC743CC023B2D2B@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

The article is among those at:

<http://www.arrl.org/tis/info/rfi-elect.html>

73,
Ed, W1RFI

-----Original Message-----

From: ed.kwik@delphiauto.com [mailto:ed.kwik@delphiauto.com]
Sent: Tuesday, May 08, 2001 2:21 PM
To: Low Power Amateur Radio Discussion
Subject: Line noise Info needed

I gotta get serious about my local power line noise problem. I would like to check into some gear that does a better job of locating noise sources. I have the recent QST article but it seems to be more complicated than I need. Does anyone have a copy of this article handy?

W. Leavitt, W3AZ, "A Line-Noise 'Sniffer' that Works," QST, Sep 1992, pp 52-55.

Thanks

Ed AB8DF

Date: Wed, 9 May 2001 08:32:23 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [97912] QRP - Solar Power
Message-ID: <Pine.LNX.4.33.0105090815430.10487-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I should never try to do things late at night and when I'm tired...hi hi hi...I tried to subscribe to the QRP Solar Power group server and as the saying goes, I got mixed reviews!....meaning I managed to screw things up...I found things confusing (as usual-HAR!) and so I made a good decision and went to bed!....

...this morning, my mind was apparently working "more better" so here's what I did....

(1) - I got on the QRP SolarPower Yahoo web site and printed off the page which shows:

DESCRIPTION
QRP Solar Power

Category: Hobbies

MOST RECENT MESSAGES

No messages for this group.

GROUP EMAIL ADDRESSES

Post message: QRPSolarPower@yahoogroups.com

Subscribe: QRPSolarPower-subscribe@yahoogroups.com

Unsubscribe: QRPSolarPower-unsubscribe@yahoogroups.com

List owner: QRPSolarPower-owner@yahoogroups.com

(2) in order to subscribe, I sent a message to:
QRPSolarPower-subscribe@yahoogroups.com
with nothing in the SUBJECT and nothing in the BODY.

(3) in short order I received a message from Yahoo noting my attempt to
subscribe and asking me to REPLY in order to confirm my wish to subscribe.

(4) with nothing in the BODY of this received message from Yahoo, all I
did was send this message back to Yahoo as a REPLY.

(5) I have now received a confirmaiton of my subscription.

....so now I'll try a post....am I doing ok Ron?.... ;-)

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
K2#2032 A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" oo#148 "I am da man wit "DAH" paddle!"

Date: Wed, 9 May 2001 08:40:06 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [97913] QRP - Solar Power
Message-ID: <Pine.LNX.4.33.0105090837060.14191-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

My "test" posting worked so the instructions below are correct everyone!

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
K2#2032 A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" oo#148 "I am da man wit "DAH" paddle!"

(1) - I got on the QRP SolarPower Yahoo web site and printed off the page
which shows:

DESCRIPTION Category: Hobbies
QRP Solar Power

MOST RECENT MESSAGES
No messages for this group.

GROUP EMAIL ADDRESSES

Post message: QRPSolarPower@yahoogroups.com
Subscribe: QRPSolarPower-subscribe@yahoogroups.com
Unsubscribe: QRPSolarPower-unsubscribe@yahoogroups.com
List owner: QRPSolarPower-owner@yahoogroups.com

(2) in order to subscribe, I sent a message to:

QRPSolarPower-subscribe@yahoogroups.com

with nothing in the SUBJECT and nothing in the BODY.

(3) in short order I received a message from Yahoo noting my attempt to
subscribe and asking me to REPLY in order to confirm my wish to subscribe.

(4) with nothing in the BODY of this received message from Yahoo, all I
did was send this message back to Yahoo as a REPLY.

(5) I have now received a confirmation of my subscription.

...now try a posting.

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
K2#2032 A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" oo#148 "I am da man wit "DAH" paddle!"

Date: Wed, 9 May 2001 11:17:46 -0400
From: ed.kwik@delphiauto.com
To: cjl@mitre.org
Cc: qrp-1@Lehigh.EDU
Subject: [97914] RE: Line noise Info needed
Message-ID: <05256A47.00542E3C.00@notes.delphiauto.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

Hi Chuck,

Thanks for the check in last night for the MI QRP Net. Good signals and solid copy. It took me about a year before I found 'the guy' at the power company who's job it is to find and report power line noise.

I would call about once a week. Calls that do not have anything to with downed lines or power outages are routed into the same department as billing errors and other complaints. Not sure if they ever get to anyone technical.

I would send a weekly e-mail to the power company. I described my problem in great detail and included all my observations for the week. I would identify what days and times the noise occurred and what radio and TV stations I could hear/see the noise.

I would copy the above e-mail to their web page where they had a input screen for customer comments. This was also done weekly.

I contacted my ARRL division technical coordinator via e-mail. This seemed to get the ball rolling. He responded to my e-mail and said that he had passed my problem on to some connections he had and did not elaborate. It was shortly after that 'the guy' from the power company left a note on my front door saying he had dropped by but could not find any problems. The note had no name or number. So I continued the weekly calls, e-mail, and web page with the addition of requesting 'the guy' call me or leave his name and number. Several months passed. One day I found another note on my door. It said he had been around several times but could not find any problems. But this time it had his name and number. This was a major break. I was able to describe my problem to him and tell him exactly what I had done to troubleshoot the problem. Of course I had to convince him the noise was his problem and not mine. A demo on the phone where I pulled the main breaker while he was listening to my receiver helped a lot. After several conversations I discovered that he had never did any of his drive byes on the block that I had located the bad pole. He has an instrumented truck that he drives around. If his alarm goes off, he calls it in. I told him what street to drive down and the address of the house that connected to the bad pole. The next day I got a message that I had been right

all along. So my first pole got fixed about a month later.

I had about six months of no noise. I had a great time with my NC20 that spring and summer. When the cold weather of fall came around another pole started to make noise. I called my friend at the power company. He responded right away this time. The problem was and still is very intermittent and has varying amplitude. He can never detect the noise on any of his drive byes. The noise varies with temperature and humidity. It is worse at night when I am on the radio but almost always gets weak or disappears completely during the day when he does his drive byes. That is why I need to improve my instrumentation. I need to be able to measure the relative strength of the noise and keep a log of it. I am hoping this log will convince the power company to fix the pole without their equipment sounding an alarm. Also I expect to have an ongoing noise problem. All of the poles in the area are of the same age so I expect more to go bad in the future. There were nights last winter when I did not even try to get into the Fox hunt because of the S9 plus noise.

Two months ago there were two power company bucket trucks parked in front of my house. The guys were killing time waiting to get access to a construction site at the end of the block. I went out and asked them if they could check the pole down the street about 25 yards away from where they were parked while they were waiting. Of course this was against company policy and they would like to help but yadda, yadda, yadda.

Based on the responses I have received I will collect all of the inputs, summarize them, and put them on the list. I hope you have better luck dealing with the power company than I have.

Ed AB8DF

Chuck Ludinsky <cjl@mitre.org> on 05/09/2001 09:29:28 AM

Please respond to cjl@mitre.org

To: Ed Kwik@US_GM_TRY_TEC01
cc:

Subject: RE: Line noise Info needed

Hi, Ed.

> I gotta get serious about my local power line noise problem.
> I would like to check into some gear that does a better job
> of locating noise sources. I have the recent QST article but
> it seems to be more complicated than I need. Does anyone
> have a copy of this article handy?
>
> W. Leavitt, W3AZ, "A Line-Noise 'Sniffer' that Works," QST,
> Sep 1992, pp 52-55.

If you come with a copy, I'd very much appreciate one also. The noise that I have is usually around S9, sometimes higher. I've contacted the power company, but so far they have not done anything. Next step is to perform a number of more accurate measurements, then contact the company by registered mail with the info (with copies to the FCC and to the state Public Utilities Commission).

I've also started building one of Doug DeMaw's noise cancellers. Even if it can reduce the noise by one or two S units, it would be helpful.

72 DE K1CL,
Chuck.

Received: from ahmlir3.mail.eds.com ([205.191.24.43]) by uskokg98.delcoelect.com (Lotus SMTP MTA v4.6.7 (934.1 12-30-1999)) with SMTP id 05256A47.0049A71F; Wed, 9 May 2001 08:24:29 -0500

Received: from ahmlir3.mail.eds.com (localhost [127.0.0.1])
by ahmlir3.mail.eds.com (8.11.3/8.11.3) with ESMTP id f49D0ko15234
for <ed.kwik@delphiauto.com>; Wed, 9 May 2001 09:24:46 -0400 (EDT)

Received: from ahmler2.mail.eds.com (ahmler2.mail.eds.com [192.85.154.72])
by ahmlir3.mail.eds.com (8.11.3/8.11.0) with ESMTP id f49DKFZ06912
for <ed.kwik@delphiauto.com>; Wed, 9 May 2001 09:20:15 -0400 (EDT)

Received: from smtpproxy1.mitre.org (mb-20-100.mitre.org [129.83.20.100])
by ahmler2.mail.eds.com (8.11.3/8.11.1) with ESMTP id f49DKEg15022
for <ed.kwik@delphiauto.com>; Wed, 9 May 2001 09:20:15 -0400

Received: from avsrv1.mitre.org (avsrv1.mitre.org [129.83.20.58])
by smtpproxy1.mitre.org (8.9.3/8.9.3) with ESMTP id JAA26772
for <ed.kwik@delphiauto.com>; Wed, 9 May 2001 09:20:04 -0400 (EDT)

Received: from MAILHUB2 (mailhub2.mitre.org [129.83.221.18])
by smtpsrv1.mitre.org (8.9.3/8.9.3) with ESMTP id JAA27874
for <ed.kwik@delphiauto.com>; Wed, 9 May 2001 09:20:04 -0400 (EDT)

Received: from ludinsky.mitre.org (129.83.9.148) by mailhub2.mitre.org with SMTP

id 6575853; Wed, 09 May 2001 09:20:02 -0400

Message-ID: <3AF94638.5F0D6612@mitre.org>
Date: Wed, 09 May 2001 09:29:28 -0400
From: Chuck Ludinsky <cjl@mitre.org>
Reply-To: cjl@mitre.org
Organization: The MITRE Corp.
X-Mailer: Mozilla 4.61 [en]C-19990607M (Win98; U)
X-Accept-Language: en
MIME-Version: 1.0
To: ed.kwik@delphiauto.com
Subject: RE: Line noise Info needed
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

```
|----->
|USK0KG98/us/delphiauto      |
|USK0KH99/us/delphiauto      |
|US_TRY_TECN01                |
|----->
>-----|
|05/09/2001 09:24:38 AM - 05/09/2001 |
|09:24:38 AM                        |
|05/09/2001 09:24:38 AM - 05/09/2001 |
|09:25:09 AM                        |
|05/09/2001 09:25:08 AM - 05/09/2001 |
|09:25:09 AM                        |
>-----|
```

Date: Wed, 9 May 2001 11:22:08 -0400
From: "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
To: neqrp@jonal.net, qrp-1@Lehigh.EDU
Subject: [97915] Sixth NEQRP SSB NET was EXCELLENT!
Message-ID: <OFFC16D11A.341556B7-0N85256A2A.00556E66@and.us.ray.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Started at 7.284 and called net together. All sigs 59+

except for MI who was readable just above the noise:

Had 6 checkins round one and 4 more for round 2:

*K1VY	Neil	Hollis,NH	Drake C-line
*K1CWZ	SpiI	Nashua,NH	Drake TR-7
*W1CFI	Paul	Falmouth,MA	Drake TR-7
*AB8DF	Ed	Waterford,MI	TT Triton IV
N1EU	Barry	Nr Albany,NY	FT301S
*W1KRT	Ken	Springfield,NH	FT746
NA1XX	Mike	N.Weymouth,MA	QRP+ @ 2W+EFDipole
*WA10HR	Ev	Windsor,CT	FT756
*K1RC	John	Dracut,MA	IC-735
*KC1FB	Jim	Norwalk,CT	TT ARGO 509

* denotes multiple checkins.

After net was closed I qsy'd to 7.234 and the noise and BC interference was really nonexistent!! W1CFI and WA10HR followed me and we had a nice QSO for about 10 minutes.

ROn - N1ZSW

Date: Wed, 9 May 2001 11:43:14 -0400
From: Maxime Prati <mprati@postech.ca>
To: "'ed.kwik@delphiauto.com'" <ed.kwik@delphiauto.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97916] RE: Line noise Info needed
Message-ID: <1184DDFC52DBD311AF510050DA799BB771926C@INTERNET-SERVER>
MIME-Version: 1.0
Content-Type: text/plain

Hi,

Here, in my town, the guy from the electrical compagny is a ham.
That's is very cool, since he understand what we say to him.
He is very busy, all the ham around call him for every problem they have.
Even the one's that do not have relation with electrical poles !

I don't know if it could help you, but one of the test they do to see (actually ear) the faultly pole, is that you take a friend who listen to the noise, and you hit the bottom of the pole with a sledge hammer. With the vibration

on the pole, the noise might change also. If it does, you found the bad pole.

When a ham have a problem of this nature, we do hit all the pole around the house,
and usually we find the bad one. After, we call the compagny, and they come to
inspect it and change any rotten piece in it.

Another you can do to help (this way you can work alone) is to bring with you
a little cheap A.M. radio (9 volts battery type) tune it between to station,
and listen to the noise when you hit the pole whith the sledgehammer.

until now, we had good results with this technique.

73 / 72 de VE2HAC
Maxime Prati

"Duct tape is like the Force. It has a light side, a dark side, and it holds the universe together...."

Maxime Prati

Date: Wed, 9 May 2001 09:11:04 -0700 (PDT)
From: Curt Milton <wb8yyy@yahoo.com>
To: bmurrey@amexol.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [97917] Re: [MH101] Crystal Matching...why?
Message-ID: <20010509161104.44396.qmail@web9603.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Brian, you are on the right track when you ask questions! Paul NA5N gave you lots of info on how to do it. I will add a little encouragement from my practical use.

I needed four xtals for a filter. I wanted the bandwidth to be approx. 500 Hz +/- . I do not have a counter at home, so what i did was use my everyday receiver to compare pitch of the xtals. You need a stable receiver - most modern commercial ham rigs have fairly low drift.

The trick is to make the comparisons by tuning the receiver to one xtal, and comparing the pitch of the

others. Some of course will be higher or lower. So if your circuit needs 3 or 4, pick those that are closely pitched. My experience is you should be able to get within about 100 Hz this way, which is adequate for a 500 Hz type CW filter. Nothing bad happens if you end up with 600 Hz say.

Given you have the crystals, its worth the effort to measure them and its not so hard to do. Contact me off the list if you need a simple oscillator circuit. Also put alligator clips on it so you can quickly compare the pitches.

Curt WB8YYY, FP#44

--- Brian Murrey <bmmurray@amexol.net> wrote:
> First of all, I am a circuit rookie. This may be a
> real dumb question but
> here it goes. I'm not too bashful to ask it, don't
> be too hard on me. <grin>
>
> I got my crystals from Mouser. They all have the
> same freq marked on the
> outside of them. Doesn't this mean they are
> matched?
>
> If it doesn't, then can someone 'splain to me what
> this matcghing is all
> about and why we need them matched?
>
> Thanks es 72
>
> (I'm cathing up on my email....sorry of this has
> already been discussed)
>
>

=====
> KB9BVN NORCAL 2792 FISTS 5695 QRP-L 1540 QRP-ARCI
> 10223
> 39.558 N 86.095 W Johnson Co., Indiana
> GRID: EM69WN - Ten Tec Scout - Attic Dipole - 5w
> Member of the American Radio Relay League - SOC
> #400
> FISTS Century Club #764/#24 QRP - Flying PIG QRP
> #-57
>

=====

>

Do You Yahoo!?

Yahoo! Auctions - buy the things you want at great prices
<http://auctions.yahoo.com/>

Date: Wed, 9 May 2001 12:21:29 -0400
From: preacher102677@juno.com
To: qrp-1@Lehigh.EDU
Subject: [97918] For anyone who can get on freq...
Message-ID: <20010509.122131.-250555.7.preacher102677@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hello! I'm trying out my fully enclosed, battery operated MS-15, and need a quick listen to see how my sig sounds (alas I have no receiver but the one in my rig for fifteen!) I'm feeding a 1/4 vert with about three watts. Is there anyone out there who can listen at about 21.060 for my sig? I'm on the air now, until about one o'clock EST.

LIC,

G. Brandon Hoyt --"Known far and Wide as the Great Pumpkin."
Photographer, Philosopher, Preacher, Pirate, Poet.
DE KG4GVL Clear.

GET INTERNET ACCESS FROM JUNO!

Juno offers FREE or PREMIUM Internet access for less!
Join Juno today! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Wed, 9 May 2001 09:20:01 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [97919] Re: Toroid Questions
Message-ID: <MABBJOEABOILMKCJCLFCEEDKCCAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Brian

Yes, with footnotes, you can get essentially the same results with a toroid wound with smaller gauge wire. You can get the same inductance with a variety of wire sizes. The number of turns might vary slightly by a turn or two.

A rule of thumb in most coils is to use the largest size of wire you can for the lowest RF losses. There is a limitation, though, in that you would like to have about one wire diameter between turns to reduce the distributed capacity across the coil. The spacing between turns minimizes this capacity from one turn to the next. This limits the largest wire size you would use if you were after a high Q coil.

Often we compromise by closewinding the turns in order to obtain the needed inductance with a smaller toroid or even standard solenoid wound coil. We are accepting a slightly lower Q in order to obtain a physically smaller toroid inductor.

If you have an inductance meter like the LCII/B from Almost All Digital Electronics (I think their web site is www.AADE.com for info), you can measure the inductance of a given core with a variety of turns and wire sizes.

73, Bob N6WG

Date: Wed, 9 May 2001 12:00:33 -0400 (EDT)
From: Brien Pepperdine <pepperb@gov.on.ca>
To: qrp-l@lehigh.edu
Subject: [97920] RED HOT RADIO - any contact from the Mother Ship?
Message-ID: <Pine.OSF.4.05.10105091151010.31066-100000@govonca2.gov.on.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I am in urgent need to hear of any recent positive contacts from Red Hot Radio. I have seen David Fifield's presence on QRP-L on occasion, but the web page for RHR indicates a February date of 'experiencing delays'. Now it is May.

Anything I should know? He asked about ME regarding a query I had made, back in February when I was on

vacation and off the List. A friend of mine left me a phone message to let me know and I did respond back to RHR in kind, but have not heard anything back afterward.

My radio has been in limbo for a long time now and its high time I moved it along to the next plateau.
Worried.
Thanks for any info.

Brien Pepperdine
Amateur Radio Station VE3VAW
Toronto, Ontario Canada
ARCI QRP #8773 - NORCAL QRP "ZOMBIE"

-Information and comments herein are mine own and are separate and independent of the electronic information gateways, pathways and provider(s) utilized-

Date: Wed, 9 May 2001 09:29:19 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [97921] Re: INRAD Filters in a 706?
Message-ID: <MABBJOEABOILMKCJCLFCIEDKCCAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Rod
When I added the INRAD 270 Hz filter to my old Kenwood TS180, I had to mount the filter almost a foot away from the intended filter location and cable it over with RG174 coax. No problems and it worked fine. Look inside your 706 and see if there is a convenient location for your add on filter.
73, Bob N6WG

Date: Wed, 9 May 2001 09:36:39 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>

Subject: [97922] Re: NorCal Pizza Pizza!
Message-ID: <MABBJ0EAB0ILMKCJCLFCEEDLCCAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Mike
I'm planning on being there.
73, Bob N6WG

Date: Wed, 9 May 2001 12:52:01 EDT
From: Drbob92031@aol.com
To: QRP-L@lehigh.edu
Subject: [97923] Concern with "solar power" sign up
Message-ID: <9c.e3027cd.282acfb1@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

To all interested:

I am one of the guys that responded to "rattray's" post for interested parties.
I went to the site for registering to the newly formed group (<http://groups.yahoo.com/group/QRPSolarPower>) and when I went there to register I got the feeling I was signing on to Yahoo for my server. This is not my intentions. Could some one please take me by the hand (as a 70 yr. old I need a hand occasionally) and talk me thru the registration to this new group (I.E. solar power)
Tnx es 72 de WA2EAW..Bob

Date: Wed, 9 May 2001 11:52:32 -0500
From: "Rick Austin" <rick@ltcable.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [97924] Re: HW-99
Message-ID: <006501c0d8a8\$732b5960\$18208440@ricksnote>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The following source lists a photocopy of the HW-99 Manual for \$24.00.

<http://www.w7fg.com/manuals.txt>

Rick Austin
KD5LAQ

----- Original Message -----

From: <Rlemmel@aol.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Tuesday, May 08, 2001 4:57 PM

Subject: HW-99

>

> I have had in my possession a HW-99 Heathkit CW Tranceiver since a trip to

> Dayton several years ago. I'm not sure why I purchased it. It has no
> documentation with it although I did look up the QST review but it did not
> offer very much info. For those of you who do not know what this rig is,
it

> was a novice type cw only and covered 80,40,15,and 10 meters with a front
> panel power out adj up to abt 50 watts

> I have made a few qsos with this rig but it primarily just occupies
> space. I am trying to decide what to do with it. If any one has a manual
or

> perhaps a schematic I would gladly pay copying and mailing charges.

> My plans as of now are to 1-sell it(perhaps where I got it), 2- if I
can

> get some info on it maybe use it to experiment around and maybe learn

> something, or 3-Let it sit several more years.

> Any input would be greatly appreciated. 72, Randy,wv9n

Date: Wed, 09 May 2001 09:48:07 -0700

From: Bob Welch <p326@earthlink.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [97925] K-1 Sale

Message-ID: <3AF974C7.88F4AF66@earthlink.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Thank you one and all who responded for my quest to purchase a K-1.

I located one and have sent the check to purchase. I have notified the seller.

Anxious to join all the other happy k-1 users.

73,

Bob

Date: Wed, 9 May 2001 13:03:30 -0400
From: "Richard Brummer, K2JQ" <k2jq@bestweb.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [97926] Re: Concern with "solar power" sign up
Message-ID: <017e01c0d8a9\$fa055520\$0405b3d8@obvious>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bob,

I had the same problem, and you confirmed my suspicions.

I was not able to join QRP Solar until I signed up for a Yahoo account.

However, you are only signing up for a Yahoo account, you are not signing on for Yahoo as an ISP. No problem for me, but the process was made difficult by the lack of explanation.

73,

Dick K2JQ

Date: 9 May 2001 10:03:10 -0700
From: Mike Pupeza <mpupeza@altavista.com>
To: QRP-L@Lehigh.EDU
Subject: [97927] SG-2020 ADSP Retrofit - How Good?
Message-ID: <20010509170310.27304.cpmta@c012.sfo.cp.net>
Content-Type: text/plain
Content-Disposition: inline
Mime-Version: 1.0

Hi gang,

How good is the retrofit DSP for the SG-2020?

The update and retrofit for \$120 sounds OK. I would like some first hand comments, and, if favourable, will order it up at or after Dayton.

I'm still very pleased with my unit, and use it regularly. It works well for me on SSB, both Base and Mobile, and has been great with Pactor on Winlink. I've also scored well with it in the last 3 Field Days in class 1B2-Battery.

So, you users out there, let me know!

Mike VE3EQP.....>

Find the best deals on the web at AltaVista Shopping!
<http://www.shopping.altavista.com>

Date: Wed, 9 May 2001 13:13:38 EDT
From: Drbob92031@aol.com
To: qrp-1@lehigh.edu
Subject: [97928] solar power sign up
Message-ID: <fc.6078550.282ad4c2@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

To the many who responded;

Thanks to all of you. I did just send the e mail and that should do it.
Bob WA2EAW

Date: Wed, 09 May 2001 10:40:18 -0700
From: JJ&A <w7ls@blarg.net>
To: qrp-1@lehigh.edu
Subject: [97929] NorCal keyer paddles
Message-ID: <3AF98101.801A0E92@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=1234312694&r=0&t=0&showTutorial=0&ed=989467928&indexURL=0&rd=1>

Date: Wed, 9 May 2001 08:53:04 -0400 (EDT)
From: n2go@arrl.net
To: qrp-l@Lehigh.EDU
Subject: [97930] FS Teflon wire
Message-ID: <Pine.LNX.4.21.0105090834010.432-100000@valhalla.v>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

It must be antenna season. I have received requests for teflon wire.

The cost is \$35 per 1000 foot spool plus postage. Your choice of 22 or 24 AWG stranded teflon insulated wire. Also consider trades for South Bend Precision 9" lathe accessories, like a faceplate/dogs/ threading micrometer compound stop precision centers/collets and machinist tools, gauges, level etc..

Appropriate quantitie of wire and/or cash for trade.

Please confirm availability before sending payment.

Postage in the US is \$7.55 via priority mail.

Postage to Canada is \$16.75 via air and \$15.25 via surface mail.

73,

Jim n2go

Jim Skalski
35 Castlewood Drive
Cheektowaga, NY 14227

Date: Wed, 9 May 2001 13:48:31 -0400
From: "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
To: qrp-l@Lehigh.EDU
Subject: [97931] QRP+ Seller?
Message-ID: <0F6381159C.E5248D70-0N85256A47.00619FBA@and.us.ray.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

A while back someone was selling the original QRP+ rigs that were put together with "old-stock". I have tried to search the archives but must be doing something wrong.

Anyone know who I am talking about please email me direct.

Thanks
RON - N1ZSW

Date: Wed, 09 May 2001 17:57:12 +0100
From: "Chuck Adams, K7Q0" <k7qo@earthlink.net>
To: qrp-l@Lehigh.EDU
Subject: [97932] [MH101] Schematic Update
Message-ID: <5.0.2.1.0.20010509174449.00a5f770@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

I have placed a new copy of the schematic for the SW30+ on the web page. I added the dashed lines to show the VFO and I moved C102 to the output side of U2, the 8V regulator. This was an old error in Dave's schematic that was pointed out by Glen, VE3DNL, in the Autumn 1998 issue of QRPp and I had forgotten about until yesterday when looking something up in the issue. And if you do not have a copy of that issue then shame on you. It is a classic. Go to the NorCal web page and get the year 1998 issues from Doug so that you will have it.

For those building the unmodified version of the SW30+ then the schematic as you now see it will be all that you need.

For those that are interested in the mods, then we will go through several iterations on the schematic for several mods depending upon how many you want to do. I will keep them all on the web page with notes.

And speaking of the web page. qsl.net is asking for donations to help keep it in business and since there are a great number of hams using qsl.net for their personal web pages, I highly recommend that you spend the \$10 and keep it alive. If too many do not help then it could disappear. It is not 'free'.

FYI,

Chuck Adams, K7Q0 CP-60

Prescott, AZ k7qo@earthlink.net <http://www.qsl.net/k7qo>

TMPS-2001 Jan 12th -> April 15th, 2001 States = 49 DXCC = 15

States Needed AK DXCC --- K XE VE KH6 V73 HI3 FM5 OH3 C6 ZL1 C08 ZS6 EA8 EA7
PJ ZL2

Moving to Arizona? --- Bring your own water.

Date: Wed, 9 May 2001 14:26:45 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <k2jq@bestweb.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [97933] Re: Concern with "solar power" sign up
Message-ID: <01a601c0d8b5\$9f598c20\$4206d10a@endpoints.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Be aware that I personally signed onto Yahoo about 6 weeks ago
for another purpose.

SPAM started flooding my account the next day.

----- Original Message -----
From: Richard Brummer, K2JQ <k2jq@bestweb.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Wednesday, May 09, 2001 1:03 PM
Subject: Re: Concern with "solar power" sign up

> Bob,
>
> I had the same problem, and you confirmed my suspicions.
>
> I was not able to join QRP Solar until I signed up for a Yahoo account.
>
> However, you are only signing up for a Yahoo account, you are not signing
on
> for Yahoo as an ISP. No problem for me, but the process was made
difficult
> by the lack of explanation.
>
> 73,

> Dick K2JQ

>

>

>

Date: Wed, 9 May 2001 14:38:32 -0400
From: Maxime Prati <mprati@postech.ca>
To: "'myetsko@insydesw.com'" <myetsko@insydesw.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [97934] RE: Concern with "solar power" sign up
Message-ID: <1184DDFC52DBD311AF510050DA799BB771926E@INTERNET-SERVER>
MIME-Version: 1.0
Content-Type: text/plain

hi,

A trick that I always use, is when I need to give my e-mail adress,
I have a provision of garbage can e-mail accounts...

Those you can have for free at yahoo, hotmail, or whatever...

I use a couple of e-mail address only for that purpose...

Is there a better place for spam than a garbage can ?

hi hi

73 / 72 de VE2HAC

Maxime Prati

"Duct tape is like the Force. It has a light side, a dark side, and it holds
the universe together...."

-----Original Message-----

From: Mike Yetsko [mailto:myetsko@insydesw.com]

Sent: Wednesday, May 09, 2001 2:27 PM

To: Low Power Amateur Radio Discussion

Subject: Re: Concern with "solar power" sign up

Be aware that I personally signed onto Yahoo about 6 weeks ago
for another purpose.

SPAM started flooding my account the next day.

Date: Wed, 09 May 2001 14:46:37 -0400
From: Kenyon Cox <kenyon@charter.net>
To: qrp-1@lehigh.edu
Subject: [97935] 40M monoband no-tuner SLV?
Message-ID: <3AF9908D.583AC57D@charter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings,

Anybody put one of these together? I've looked through the archives and around the WWW, with no luck (excepting the Norcal site). Any pointers?

Kenyon Cox WD8INS

--
Caldera eDesktop 2.4
2:30pm up 21:33, 3 users, load average: 0.00, 0.04, 0.05

Date: Wed, 09 May 2001 19:18:54 -0000
From: "Tom Dufresne" <tdufres@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [97936] St. Louis Vertical feeders?
Message-ID: <F81kKkqTgtoBjfgBNj40000238c@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Bud, KV7G, was so gracious as to sell me a St Louis coil, and now I am ready to go. Can I use RU-174 coax (the thin one) for the main feed from the rig to the antenna? I REALLY don't want to haul around 50 feet of RG-58 or whatever. I know at higher freqs it would be out of the question, but I reckon about 95% of my QRP'ing is gonna be 40,20,and 15 meter.

Tom
KC0GXX

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Wed, 9 May 2001 12:55:17 -0700

From: Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
To: "QRPL (E-mail)" <qrp-1@lehigh.edu>
Subject: [97937] NiMH batteries can be safely trickled charged!
Message-ID: <87568F78ABDCD211A0AC0008C707718B029D1290@az10exm03.sat.mot.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I have heard that NiMH are tricky to charge. This appears to be only true if the cell is fast charged. Alternatively, they can be trickled charged at C/15 or less forever without problems. For us portable guys with small solar panels, that means that 1200 mAH NiMH AA cells can be charged with a solar panel at 80 ma or less with no controller.

For example, if you are running a K1 at 40 ma on receive, a NiMH battery pack can be used with a 80 ma solar cell array, to keep the batteries "toped off" at a 40 ma charge during receive, and 80 ma at other times for extended portable operation.

I got this information from the Maxim web site:

http://dbserv.maxim-ic.com/tarticle/view_article.cfm?article_id=45

Neat stuff!

- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

Date: Wed, 9 May 2001 16:15:01 -0400
From: "Dave Benham" <dodgeboy@mindspring.com>
To: <qrp-1@Lehigh.EDU>
Subject: [97938] Re: Concern with "solar power" sign up
Message-ID: <012301c0d8c4\$bb64a9e0\$84d279a5@hqa.chrysler.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I heard the same complaint recently from another group. Apparently something has changed with Yahoo recently to promote this spam. I guess I would beware.

Dave K8TRF

----- Original Message -----

From: Mike Yetko <myetsko@insydesw.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Wednesday, May 09, 2001 2:26 PM
Subject: Re: Concern with "solar power" sign up

> Be aware that I personally signed onto Yahoo about 6 weeks ago
> for another purpose.
>
> SPAM started flooding my account the next day.
>
>
> ----- Original Message -----
> From: Richard Brummer, K2JQ <k2jq@bestweb.net>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Sent: Wednesday, May 09, 2001 1:03 PM
> Subject: Re: Concern with "solar power" sign up
>
>
> > Bob,
> >
> > I had the same problem, and you confirmed my suspicions.
> >
> > I was not able to join QRP Solar until I signed up for a Yahoo account.
> >
> > However, you are only signing up for a Yahoo account, you are not
signing
> on
> > for Yahoo as an ISP. No problem for me, but the process was made
> difficult
> > by the lack of explanation.
> >
> > 73,
> > Dick K2JQ
> >
> >
> >
>

Date: Wed, 9 May 2001 16:43:10 -0400
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Cc: <henryf@quartz.gly.fsu.edu>
Subject: [97939] Re: WB8RCR QSL Maker Software Question
Message-ID: <004801c0d8c8\$ab34d8c0\$010044c0@baycty1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You can use essentially the same trick from QSLMaker direct, at least in many cases.

Typically, these inkjet printers have a very small leading margin and a fairly large trailing margin. The bit of data you may be missing is that the dimensions for card placement in QSLMaker are measured from the printable portion of the page. Where this printable portion falls varies depending on the particular printer. QSLMaker does allow you to place the cards wherever you want, including to the left of the printable area.

Make a 2 card .qsl file with negative X's (-2 for a DeskJet 693C). Chances are you'll need to fiddle a bit with the X values to suit your particular printer.

Personally, now that I've found a source for reasonably priced legal size card stock, I find it a lot simpler than turning the paper around.

BTW, I tried to respond to Henry directly but got a bounce message. If other folks got him must have been the phase of the moon or something.

72/73 de WB8RCR <http://members.home.com/wb8rcr/index.htm>
didileydadidah QRP-L #1446 Code Warriors #35

----- Original Message -----

From: "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, May 08, 2001 10:13 PM
Subject: Re: WB8RCR QSL Maker Software Question

> Many thanks to all who offered suggestions on my original post.
>
> I would still like to see 4 cards on a single 8.5 x 11 sheet.
>
> Bob, KC4ATU, in a direct reply, got me thinking. He told me that he no
> longer uses WB8RCR but uses the postcard maker feature in Photoshop. I
> don't have Photoshop but I do have JASC's Paint Shop Pro (PSP) in the
> office. PSP is turning out to be really nifty for displaying images. The
> image generator in the seismic processing software I use for the day job
> isn't worth a hoot and I routinely export my seismic data to PSP for
> formatting before sending it to the plotter. If I were designing a SAT
> test I guess the best analogy would be Photoshop:PSP as Snap-On:Harbor
> Freight. But that comparison might be a bit unfair to PSP. PSP does
what
> it's supposed to do with a quick learning curve and a reasonable price.

>
> This is how I managed to get 4 complete QSL cards on a single page of
> postcard stock. I set up the QSL card(s) I wanted in WB8RCR and displayed
> them on my monitor. I then used the Print Screen button on the keyboard
to
> copy the image on the screen to the clipboard. I then opened PSP and
> created a new image. I pasted the clipboard contents into the new image
> and cropped the new image so that only a single QSL card was present. I
> then saved this image as a jpeg under a new name. After reopening the
> image, I used the Multiple Print command in PSP to paste 4 of the images
> onto a single page, rotated the images 90 degrees. Then I used the
> automatic size command to expand the images to fill out the page. Seems
to
> work real well. We had network problems at the shop so I did not run the
> actual print job yet. Tomorrow I will send several pages to the HP-8500
> and we'll see how it goes. If there's an interest, I can bring an uncut
> sheet of printed postcard stock to FDIM so y'all can admire my handiwork.
>
> Thanks again
>
> Henry
>

Date: Wed, 9 May 2001 16:58:51 -0400
From: "Ron Polityka" <wb3aal@fast.net>
To: "Appalachian Trail Award" <ATRAIL-L@Lehigh.EDU>, ". QRP-L" <qrp-l@Lehigh.EDU>,
". NJ QRP-L" <njqrp@njqrp.org>,
". Eastern PA QRP Club" <epaqrp-l@Lehigh.EDU>
Subject: [97940] QRP Solar Power List
Message-ID: <008d01c0d8ca\$dac4d520\$df0d5cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

If you would like to join the QRP Solar Power list, please go to:

<http://groups.yahoo.com/group/QRPSolarPower>

Do not sign up for a Yahoo ID. Just use your call for the ID, but you
will have to remember if you used small case or capital letters. Then
select your password.

If you have any problems, please e-mail me at wb3aal@fast.net .
I will check my e-mail in the evenings.

72 & 73
Good DXing

Ron Polityka
de WB3AAL
wb3aal@fast.net

vvv Eastern Pennsylvania QRP Web Page vvv
http://www.n3epa.org
Eastern Pennsylvania QRP Club Call
N3EPA E-mail address: n3epa@fast.net

EPA QRP #1	ARRL Life Member
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal	Zombie #625
ARS # 380	HI QRP #153
VA QRP Society #45	MI QRP #1703
K2 sn1392	NJ QRP #179

Date: Wed, 09 May 2001 21:54:25 +0100
From: Larry Cahoon <lejek@erols.com>
To: Dan.Taylor@motorola.com, qrp-l@lehigh.edu
Subject: [97941] Re: NiMH batteries can be safely trickled charged!
Message-ID: <5.0.2.1.0.20010509214055.009f0c50@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Dan,

I looked at the specs on the ICs for charging the NiMH batteries and this seems to be correct. It looks like about 1.5 volts per cell would work well. So I'm considering setting up something with a LM7812 and a small solar cell to charge them. It would be perfect for an eight cell pack. The current specifications on the chargers I have trickle charge them at up to 80 mA max. One is 24 mA and another is 40 mA so I think I'm going to cut back a bit on the current you cited. Then I can claim them as part of my solar setup for field day. The hitch is that with the self-discharge rate for the NiMH batteries I feel like I need a charger for each set of 8 batteries. So far I haven't found a solar cell small enough - mainly due to not looking too hard.

73 de Larry.....WD3P in MD
<http://www.qsl.net/wd3p>

At 12:55 PM 05/09/01 -0700, you wrote:

>I have heard that NiMH are tricky to charge. This appears to be only true
>if the cell is fast charged. Alternatively, they can be trickled charged
>at C/15 or less forever without problems. For us portable guys with small
>solar panels, that means that 1200 mAH NiMH AA cells can be charged with a
>solar panel at 80 ma or less with no controller.

>

>For example, if you are running a K1 at 40 ma on receive, a NiMH battery
>pack can be used with a 80 ma solar cell array, to keep the batteries
>"toped off" at a 40 ma charge during receive, and 80 ma at other times for
>extended portable operation.

>

>I got this information from the Maxim web site:

>

>http://dbserv.maxim-ic.com/tarticle/view_article.cfm?article_id=45

>

>Neat stuff!

>

>- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

Date: Wed, 9 May 2001 22:16:33 +0100
From: "Mark Paley" <mpaley@wcnet.org>
To: "Low Power Radio Group" <qrp-l@lehigh.edu>
Subject: [97942] WB9LPU paddles
Message-ID: <PGEPLCEGJDMJPHIGJMDGKEGFCKAA.mpaley@wcnet.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

If you want to see a work of art check out the paddles I just picked up--at the bottom of my web page just below the Shurr paddles. The gentleman that made these paddles, in my view, is a first-rate artist/craftsman. He will be at the Dayton Hamvention where I'm sure he will have more orders than is prepared to handle.

Note--I have no interest in the business--just an extremely satisfied customer.

73 de
Mark Paley--KF8KL--

K1 #117, K2 #250 QRP-L #1899

<http://wcnet.org/~mpaley>

Date: Wed, 9 May 2001 15:28:06 -0700
From: Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
To: "'Larry Cahoon'" <lejek@erols.com>
Cc: "QRPL (E-mail)" <qrp-l@lehigh.edu>
Subject: [97943] RE: NiMH batteries can be safely trickled charged!
Message-ID: <87568F78ABDCD211A0AC0008C707718B029D1292@az10exm03.sat.mot.com>
MIME-Version: 1.0
Content-Type: text/plain

I think a three terminal, variable voltage LM317 regulator can be used as a current regulator. Then you can use any size solar panel. I think the current limit mode requires about 4.25v extra above what you want to charge the batteries to (3v across the regulator, 1.25v across the output), which might be about right for a lot of 18 to 22v (no load) solar panels. The trick is to float the LM317 ground connection, and use a resistor from the LM317 output to the LM317 ground connection that will draw the desired amount of current at a regulated 1.25v. The LM317 variable voltage regulator fixes the output to ground difference to 1.25v.

Connect the + side of the solar array to the input side of the LM317 regulator, the "ground" connection of the LM317 to the + side of the battery array, and the - side to the solar array ground, and bridge the current limit resistor from the LM317 output to the floating LM317 "ground". It is a very simple circuit!

For 80 ma, you need a 15 ohm resistor from the LM317 output to the floating LM317 "ground". Using 22 ohms should give a safety margin by limiting to 56 ma. Checking the power dissipation of these resistors ($P = V \times I = 1.25 \times 0.056 = 0.07\text{w}$ or $1.25 \times 0.08 = 0.1\text{w}$), 1/4 w resistors look fine for either current limit case.

It looks to me as if it is very easy to keep NiMH battery packs "topped off" using small solar panels in the field.

- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

>-----Original Message-----

>From: Larry Cahoon [mailto:lejek@erols.com]

>

>Dan,

>
>I looked at the specs on the ICs for charging the NiMH batteries and this
>seems to be correct. It looks like about 1.5 volts per cell would work
>well. So I'm considering setting up something with a LM7812 and a small
>solar cell to charge them. It would be perfect for an eight cell pack. The
>current specifications on the chargers I have trickle charge them at up to
>80 mA max. One is 24 mA and another is 40 mA so I think I'm going to cut
>back a bit on the current you cited. Then I can claim them as part of my
>solar setup for field day. The hitch is that with the self-discharge rate
>for the NiMH batteries I feel like I need a charger for each set of 8
>batteries. So far I haven't found a solar cell small enough - mainly due
>to not looking too hard.

>73 de Larry.....WD3P in MD
>

Date: Wed, 9 May 2001 22:32:21 +0100
From: "Mark Paley" <mpaley@wcnet.org>
To: "Low Power Radio Group" <qrp-l@lehigh.edu>
Subject: [97944] paddles: try again
Message-ID: <PGEPLCEGJDMJPHIGJMDGGEGGCKAA.mpaley@wcnet.org>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sorry, I didn't proofread my HTML file. I think the Parkwood paddle gif
should be okay now.

73 de
Mark Paley--KF8KL--
K1 #117, K2 #250 QRP-L #1899
<http://wcnet.org/~mpaley>

Date: Wed, 9 May 2001 18:32:11 -0400
From: "Brian B. Riley, N1BQ" <n1bq@wulfdn.org>
To: "NJ-QRP List" <njqrp@njqrp.org>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Cc: <wOods@hotmail.com>, <fspinner@hotmail.com>, <JBurnley@ifmc.org>

Subject: [97945] What Ever Happened to the WARC-bler Project???

Message-ID: <LPBBJAGIPFHKPJENAKLOGEHNEJAA.n1bq@wulfdn.org>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I was quite excited about the WARC-bler project announcement a while back, that is, a kit of parts and crystals to take a PSK-80 Warbler to 30 meters ... anyone have any idea if it is still in the offing?? I have a newly acquired Warbler kit here waiting to do it!

72/73 de brian, n1bq

--

N1BQ-3 @ 44 31.73N 072 51.55W

WideN-N digi and weather station in Underhill Center, VT

<mailto:n1bq@wulfdn.org>

NoVT QRP Society <<http://www.wulfdn.org/NVQS/>>

AMSAT LM-1418 NJQRP #274 ARS #915

QRP-L #2276 Zombie #768 NVQS #002

Date: Wed, 09 May 2001 18:45:52 -0400

From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>

To: "John J. McDonough" <wb8rcr@arrl.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Cc: <henryf@quartz.gly.fsu.edu>

Subject: [97946] Re: WB8RCR QSL Maker Software Question

Message-ID: <4.3.1.2.20010509184540.00a73b40@gly.fsu.edu>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

I think that someone has been playing with the department server. I also had problems with some of my outgoing mail. W1X0 is our sysop. I'll give him a call.

Henry

At 04:43 PM 5/9/01 -0400, John J. McDonough wrote:

>BTW, I tried to respond to Henry directly but got a bounce message. If >other folks got him must have been the phase of the moon or something.

End of QRP-L Digest 2184
